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SUPERFUND BRANCH

December 5, 1991

Mr. Mike Kuntz
Washington State Department of Ecology
M/S PV-11
Olympia, WA 98504-8711

**RE: THIRD QUARTER 1991 PROGRESS REPORT
COLBERT LANDFILL RD/RA**

Dear Mr. Kuntz:

Presented herein is the Summer (July, August, and September) 1991 Progress Report for the Colbert Landfill RD/RA Superfund Project (Project), which was prepared by Landau Associates, Inc., Spokane County's engineering consultant. This progress report addresses the reporting requirements specified in Section XI of the Project Consent Decree, including:

- Remedial action activities commenced or completed during the reporting period
- Remedial action activities projected to be commenced or completed for the next reporting period (through December 1991)
- Any problems that were encountered or are anticipated.

1.0 ACTIVITIES COMMENCED/COMPLETED DURING REPORTING PERIOD

Activities commenced and/or completed during the reporting period include completion of the draft Phase I Engineering Report (Report), review of preliminary EPA and Ecology comments on the draft Report, and discussion of preliminary draft Report comments during a joint EPA/Ecology and Spokane County meeting. Construction of two monitoring wells was also initiated during the reporting period. Specific activities performed during the reporting period included:

- The draft Report was provided to EPA and Ecology for review on August 1, 1991.
- Preliminary draft Report comments were provided by Ecology and Ecology & Environment, Inc. (EPA's oversight contractor) in early September.
- A meeting was held September 26, 1991, at the EPA Region X office in Seattle to discuss preliminary draft Report comments. The meeting was attended by EPA, Ecology, Spokane County, Ecology & Environment, Inc. and Landau Associates, Inc. representatives.
- Construction of two Upper Sand/Gravel Aquifer monitoring wells was initiated on September 24, 1991. The wells are located between U.S.



Highway 2 and Yale Road, about 500 to 1000 ft south of Wooldard Road. The purpose of the wells is to better characterize groundwater flow and constituent distribution near the southern boundary of the Upper Sand/Gravel Aquifer contaminant plume. Well construction details will be provided, and groundwater flow and constituent distribution will be described for the Upper Sand/Gravel Aquifer in a technical memorandum.

2.0 ACTIVITIES PROJECTED TO BE COMMENCED/COMPLETED DURING NEXT REPORTING PERIOD

As specified in Section XI of the Project Consent Decree, the Fourth Quarter reporting period extends through December 1991. Anticipated activities for the next reporting period include:

- Respond to EPA and Ecology final comments on the draft Report. Comment responses will be submitted to EPA and Ecology within one month of receipt of final comments.
- Finalize the Report. The Report will be finalized within one month of EPA and Ecology review of comment responses, and written approval to proceed with Phase II design.
- Initiate Phase II design. Phase II design will be initiated upon EPA and Ecology written approval to proceed with Phase II design. Initial Phase II design tasks include:
 - Develop a groundwater flow model (MODFLOW) for the Upper and Lower Sand/Gravel Aquifer. The model will be used in the design of the Phase II extraction and groundwater monitoring systems. The groundwater model coupled with a solute transport model (MD3D) will be used to predict initial and peak constituent concentrations for treatment system design.
 - Evaluate the available options and select the method(s) to control chemical scale in the Phase II treatment system.
 - Initiate design of the Phase II stripping tower. Initial design tasks will include evaluation of alternative stripping tower configurations and packing materials, development of process flow schematic, and development of piping and instrumentation diagrams.
 - Update the Project Health and Safety and Quality Assurance Project Plans.
 - Complete the additional well construction, groundwater sampling, and data evaluation activities for the Upper Sand/Gravel Aquifer, and prepare a technical memorandum describing those activities.

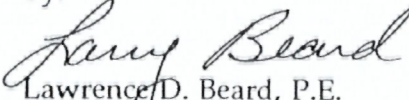
3.0 ENCOUNTERED/ANTICIPATED PROBLEMS

No problems were encountered during the previous reporting period and no problems are anticipated for the next reporting period.

This report describes progress on only the primary project remedial action activities. There are peripheral activities associated with the primary activities that are not described herein. If clarification is required for any of the activities presented in this progress report, or if additional information is desired for peripheral activities, please contact me or Dean Fowler (Spokane County).

LANDAU ASSOCIATES, INC.

By:


Lawrence D. Beard, P.E.
Project Manager

LDB/njb
No. 124-01.60
COLBERT\PROGRPT.ANN

cc: Neil Thompson, EPA
Dean Fowler, Spokane County
Lyle Diedieker, Ecology and Environment